

Work Order ID 164958

Thursday, August 10, 2017 12:53:22 PM

164958

Ship Sept 29
U/R Page 1

Item ID: D4842-4 Accept *N900040100* Setup Start *NS1*
 Revision ID: URF 16-692 Stop *NS2*
 Item Name: Lower Cutter Body, RH
 Start Date: 8/21/2017 Start Qty: 4.00 *4* Cust Item ID:
 Required Date: 9/7/2017 Req'd Qty: 4.00 *4* Customer:
 Reference: *Manufacturer to concession 400000061886*
 Approvals: Process Plan: *[Signature]* Date: AUG 10 2017 Tooling: Date:
 QC: Date: SPC (Y/N): Date: Run Start *NR1*
 Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4842	B U/R <i>OK 17/9/22</i>								
100		0.00							DAS 1 9-89 17-68-17
100	BAND SAW					4	0		
Bandsaw	Memo	0.01							
Jeaspa Bandsaw	Cut Blank at 7.250"								
110		0.62							DAS 14 9-89 S.C. 1 17/08/19
110	HAAS CNC VERTICAL MACHINING #1					4	0		
HAAS I	Memo	1.57							
HAAS CNC vertical machine #1	1-Machine per folio FB192 DWG REV: <i>[Signature]</i> FOLIO REV: <i>[Signature]</i>								
	2- deburr and break all sharp edges								

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐	
Design ☐		Operator ☐		Bending ☐		Set-up ☐	
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐	
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐	
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐	
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐	
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐	
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐	
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐	
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐	
Past Expiry Date ☐		Manufacturing Process ☐		OTHER :			
Misidentified ☐		Past Due ☐					

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NS1

Stop *NS2*

Customer:

Run Start *NR1*

Stop ***NR2***

Quality Control

0.00

0.00

Quality Control

0.00

0.00

Outsource process - Anodize

Issue P/O to ATG : 37552

0.00

1- Black Anodize as per Dwg D4842

2- PRIME AS PER DWG, SEE NOTE #2

Certification of Conformity is required

DAS
49
9-89

17/08/20

AUG 25 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____			
Misidentified	☐	Past Due	☐				

Work Order ID 164958

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164958

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Item ID: D4842-4 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: URF 16-692 Stop ***NS2***
Item Name: Lower Cutter Body, RH
Start Date: 8/21/2017 Start Qty: 4.00 ***4*** Cust Item ID:
Required Date: 9/7/2017 Req'd Qty: 4.00 ***4*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
190	QC21 - Final Inspection - Work Order Release	0.00							
190									
QC	Memo	0.00							
Quality Control									

17/9/22 
SEP 18 2017


DAS
21
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :			
Misidentified	☐	Past Due	☐				

Picklist Print

Thursday, August 10, 2017 12:53:22 PM

Page 1

Work Order ID: 164958

164958

Parent Item: D4842-4

D4842-4

Parent Item Name: Lower Cutter Body, RH

Start Date: 8/21/2017

Required Date: 9/7/2017

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP REV: A NEW ISSUE JFS 13/04/30 VERIFY BY: JLM IPP Rev.B
17.06.27 Change Mat. as per ECN17-574 DP verify DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M7075T6S1.000X5.000		Purchased	No			100	f	24.0000	0.605	2.547368			
M7075T6S1 000X5 000										★★		DAS 1 9-89	17-08-17
7075-T6 Sheet 1" Thick Plate x 5" Wide													

Location

Loc Qty

Loc Code

MAT005

24

→ ml37781

12

→ ml38086

12

1.823

0.608

DQA: _____ Date: _____



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QA Closed: _____ Date: _____

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Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

DART AEROSPACE LTD		Work Order:	164958
Description: Lower Cutter Body, RH		Part Number:	D4842-4
Inspection Dwg: D4842	Rev: B	Page 1 of 1	

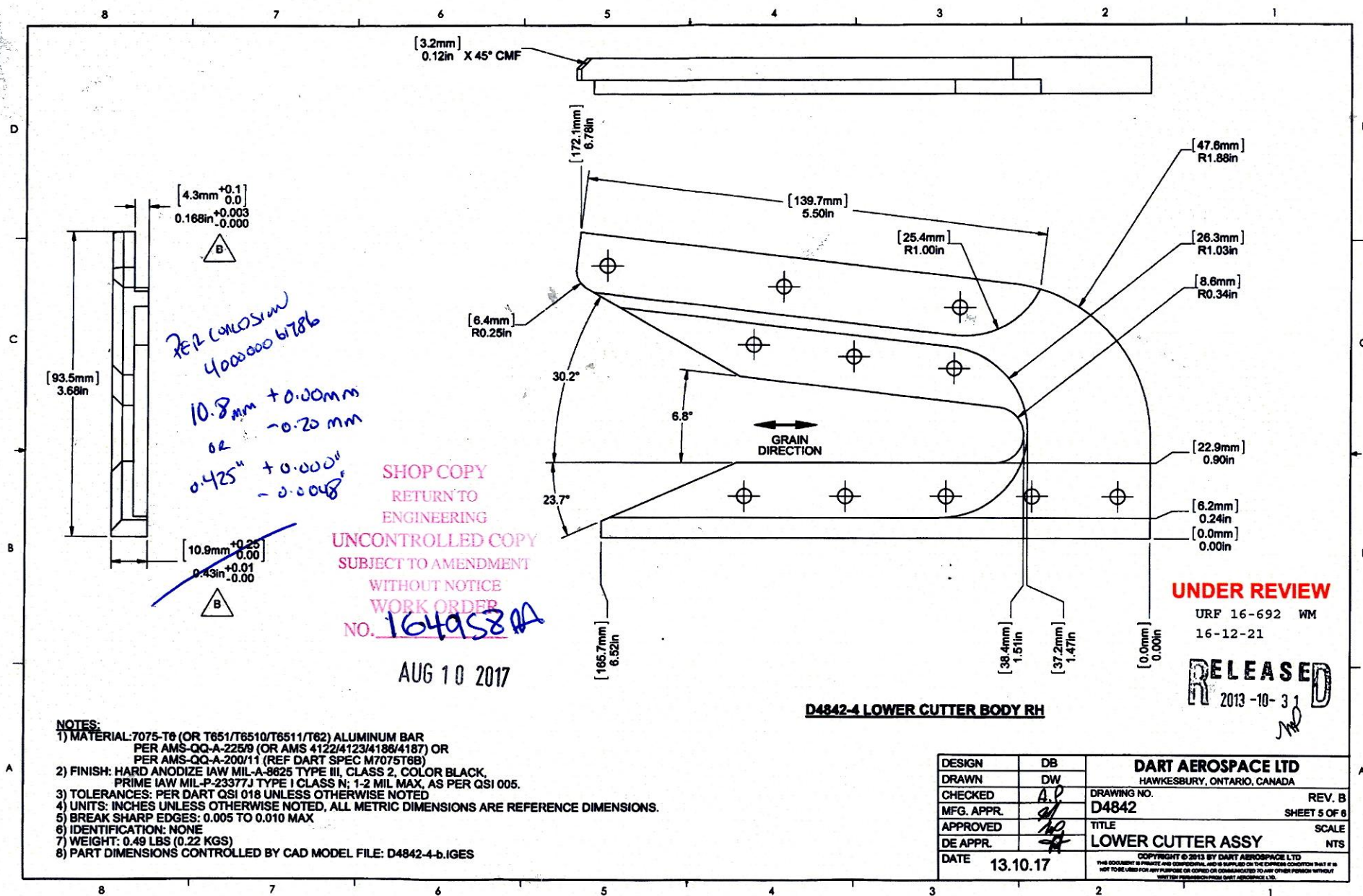
INSPECTION SHEET

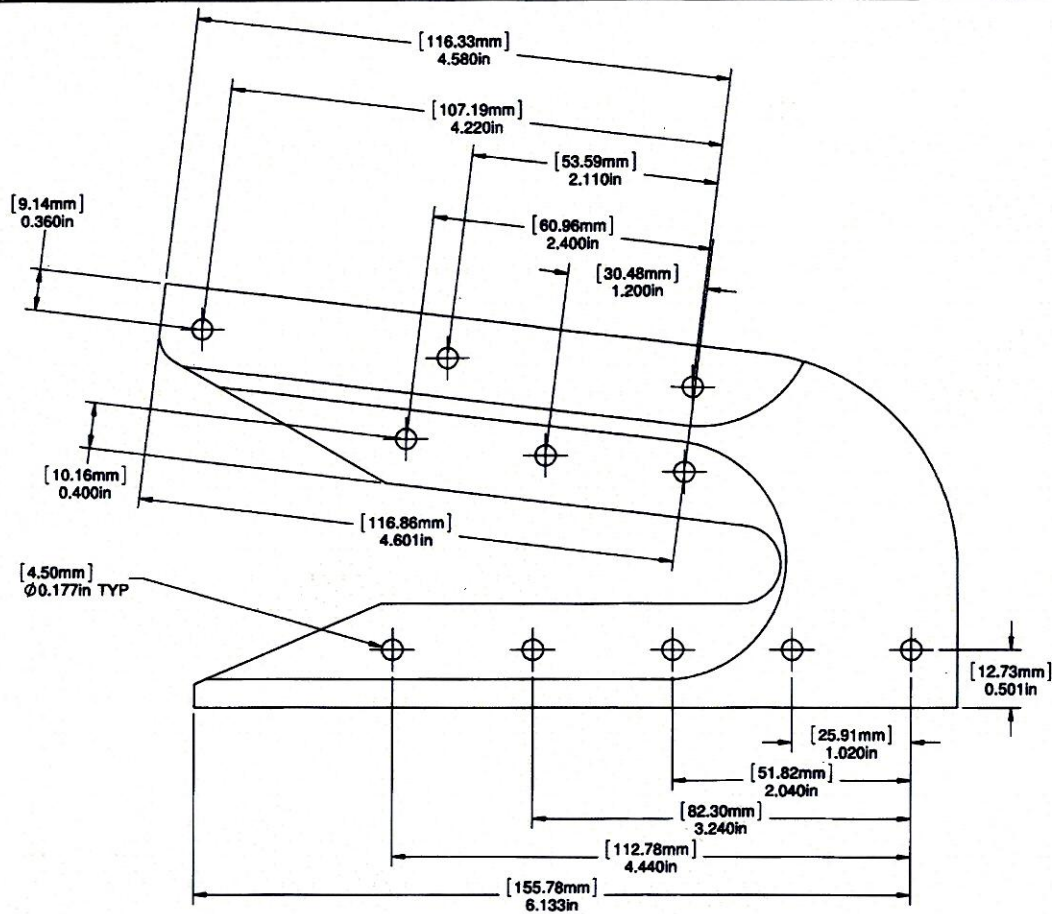
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
0.12 x 45°	+/-0.030 x +/-0.5°	0.125 x 45°	V		Per CAG 02	
0.168	+0.003/-0.000	.168	V		H.G.	
3.68	+/-0.030	3.677	V		H.G.	
0.168	+0.003/-0.000	.168	V		H.G.	
0.43	+0.010/-0.000					
5.50	+/-0.030	5.500	V		Per CAG 02	
6.78	+/-0.030	6.778	V		H.G.	
6.52	+/-0.030	6.522	V		H.G.	
1.51	+/-0.030	1.515	V		H.G.	
1.47	+/-0.030	1.466	V		H.G.	
0.24	+/-0.030	.245	V		Per CAG 02	
0.90	+/-0.030	.900	V		"	
4.580	+/-0.010	4.582	V		"	
4.220	+/-0.005	4.222	V		"	
2.110	+/-0.005	2.112	V		"	
2.400	+/-0.005	2.402	V		"	
1.200	+/-0.005	1.202	V		"	
0.400	+/-0.010	.400	V		"	
4.601	+/-0.010	4.600	V		H.G.	
Ø0.177	+0.005/-0.001	.177	V		G.P.	
6.133	+/-0.010	6.132	V		H.G.	
4.440	+/-0.005	4.438	V		H.G.	
3.240	+/-0.005	3.238	V		H.G.	
2.040	+/-0.005	2.038	V		H.G.	
1.020	+/-0.005	1.019	V		H.G.	
0.501	+/-0.010	0.502	V		H.G.	
30.2°	+/-0.5°	30.1°	V		A.G.	
23.7°	+/-0.5°	23.8°	V		A.G.	
6.8°	+/-0.5°	6.7°	V		A.G.	
0.425"	+0.000"/-0.0048"	.424	V		Per CAG 02	

Measured by: S.C. 14 9-89	Checked by: DAS 49 9-89	QC Inspector:
Date: 17/08/19	Date: 17/08/22	Date:

Engineering Approval: (If necessary)	Date:
--	--------------

Rev	Date	Change	Revised By	Approved
A	15.10.26	New Issue	KJ	





D4842-4 LOWER CUTTER BODY RH
(AUXILLIARY VIEW)

UNDER REVIEW

URF 16-692 WM
16-12-21

RELEASE
2013-10-31

DESIGN	DB	DART AEROSPACE LTD	
DRAWN	DW	HAWKESBURY, ONTARIO, CANADA	
CHECKED	A.P.	DRAWING NO. D4842	REV. B
MFG. APPR.	al	SHEET 6 OF 8	
APPROVED	16/	TITLE	SCALE
DE APPR.	16/	LOWER CUTTER ASSY	NTS
DATE	13.10.17	COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS UNDERSTANDING THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT THE WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

		Supplier Concession				PAGE 1 of 2	PLANT Leonardo Helic. - Vergiate	
Supplier NC N.	AWC 006/01		Date	02.02.2017		AW Concession	400000061786	
P/N	6F9540V00231		Grade/Category	NC		Purchase Order	4801373666	
Part Description	PROTECTR, CCP ASSY LOWER		Batch Quantity	20,000		Drawing Issue		
AW NC	GUIDO BRUSCINO		Defective Quantity	20,000		A/C Type/Model	AW6	
Supplier	DART AEROSPACE LTD		Contract					
Defect FO01 - Wrong dimensions - * 02.02.2017 09:40:16 GUIDO BRUSCINO (40067) * see supplier document attached - B/N quantities and PO's listed in the								
Cause of Defect				Repetitiveness (same P/N - Defect Code)			NO ☒ YES ☐ Follow	
ENGINEERING Evaluation and Proposal								
Engineering Evaluations, including Specialist inputs: * 10.02.2017 18:01:48 MARCELLO STEFANELLI (9273) * The part is acceptable with the action proposed by the supplier applied.			Investigation Report n.			Compliance Report n.		
Classification of Deviation from Type Design i.a.w. EASA Part 21A.91 : Minore/B								
Defect effect						Limitations		
	Before Repair		After Repair					
Safety	☐	YES	☐	YES ☐ NO	☐ YES (to specificity) ☒ NO			
Life or Duration	☐	YES	☐	YES ☐ NO				
Strenght	☐	YES	☐	YES ☐ NO				
Performances	☐	YES	☐	YES ☐ NO				
Interchangeability	☐	YES	☐	YES ☐ NO				
Reliability	☐	YES	☐	YES ☐ NO				
Maintainability	☐	YES	☐	YES ☐ NO				
Installability	☒	YES	☐	YES ☒ NO				
Testability	☐	YES	☐	YES ☐ NO				
Only Appearance	☐	YES	☐	YES ☐ NO				
No Effect	☐	YES	☐	YES ☐ NO				
Repair Proposal:					Decision			
* 10.02.2017 18:01:48 MARCELLO STEFANELLI (9273) * See attached supplier document.					☐ Use rep. with spec.repair(not yet applied) ☒ Use repaired with known repair(yet applied) ☐ Use As Is ☐ Use repaired for tests only(see Limitations) ☐ Use As Is for tests only(see Limitations) ☐ Scrap			
Concession Classification			☐ MAJOR ☒ MINOR		Re-submit after Repair		☐ YES ☒ NO	
Mark part with Concession			☒ NO ☐ YES		Method :			
ATE	MARCELLO STEFANELLI		CPE			Date	10.02.2017	
Checks and tests to be performed								
Repair registration with repair WO ☒ Number:								
Repair Evaluation:								
Final Decision								
S/N	Use As Is (UTi)	Use Repaired (RiL)	Scrap (SCA)	S/N	Use As Is (UTi)	Use Repaired (RiL)	Scrap (SCA)	
	☐	☐	☐		☐	☐	☐	
	☐	☐	☐		☐	☐	☐	
	☐	☐	☐		☐	☐	☐	
	☐	☐	☐		☐	☐	☐	
	☐	☐	☐		☐	☐	☐	
	☐	☐	☐		☐	☐	☐	
	☐	☐	☐		☐	☐	☐	
Not Serialized	Use As Is (Q.ty)		Use Repaired (Q.ty)		Scrap (Q.ty)			
Role	AW ATE	AW CPE	Inspection Clearance Repair	Quality	Customer	MoD or Authority Representative		
Signature	MARCELLO STEFANELLI							
Date	10.02.2017							

Manuf. Doc. N.	AWC 006	Date		AW Doc. N.		Purchase Order	4800671131 4800722284 4801147764 4801186922 4801218851 4801288960 4801373666								
AW P/N	6F9540V00231	S/N / Batch Number	B109195 Qty. (1) B133355 Qty. (2) B134314 Qty. (1) B134315 Qty. (1) B134842 Qty. (1) B137492 Qty. (1) B137355 Qty. (2) B137816 Qty. (1) B137818 Qty. (1) B137817 Qty. (1) B140379 Qty. (3) B140381 Qty. (2) B147002 Qty. (2) B150786 Qty. (1)	Grade	A	AW Drawing Issue	B								
Description	Lower Cutter Assy			Batch Qty	20	Defective Qty	20								
Manufacturer	Dart Aerospace			Model	AW169										
Defect(s) Description															
Leonardo has informed Dart that there are interference issues installing the lower cable cutter D4842-041 onto the Leonardo interface bracket. <table border="1"> <thead> <tr> <th>Department</th> <th>Inspector</th> <th>Signature</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Quality</td> <td>DAS 16 9-89</td> <td></td> <td>2017/02/01</td> </tr> </tbody> </table>								Department	Inspector	Signature	Date	Quality	DAS 16 9-89		2017/02/01
Department	Inspector	Signature	Date												
Quality	DAS 16 9-89		2017/02/01												
Defect(s) Cause															
The Lower Cutter body has a dimension of 10.9 +0.25/-0.00 mm. This dimension was reported as part of the approved FAI and has been met with all delivered product. <table border="1"> <thead> <tr> <th>Department</th> <th>Inspector</th> <th>Signature</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Quality</td> <td>DAS 16 9-89</td> <td></td> <td>2017/02/01</td> </tr> </tbody> </table>								Department	Inspector	Signature	Date	Quality	DAS 16 9-89		2017/02/01
Department	Inspector	Signature	Date												
Quality	DAS 16 9-89		2017/02/01												
Corrective Action						Complete Before									
In order to mitigate the interference issue for Leonardo, Dart is proposing to remove sufficient material to make the overall installation dimension at 22.15 mm +0.05/-0.35. <table border="1"> <thead> <tr> <th>Department</th> <th>Inspector</th> <th>Signature</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Quality</td> <td>DAS 16 9-89</td> <td></td> <td>2017/02/01</td> </tr> </tbody> </table>								Department	Inspector	Signature	Date	Quality	DAS 16 9-89		2017/02/01
Department	Inspector	Signature	Date												
Quality	DAS 16 9-89		2017/02/01												

For "MANUFACTURER" SUPPLIERS ONLY
ENGINEERING evaluation and proposal

Engineering evaluation

Investigation report

n.....

Compliance report

n.....

Dart's position is that this change will not impact the structural substantiation presented in Report DA169-4 for the lower cutter body since this is not a section with the lowest margin. Therefore removing 0.3 mm max from each part will not impact the structural integrity of the lower cutter assembly. The dimension on the cutter body part D4842-3/-4 will be 10.80 +0.00/-0.200.

The dimension change of the two lower cutter body parts mating, plus the sealant, anodize and primer layers will be defined as a dimension of 22.15 +0.05/-0.35 mm on the assembled lower cutterbody and will be incorporated into the D4842 drawing for inspection.

Defect effects			Limitations	
	Before any repair	After any repair		
Safety	☐ yes	☐ yes ☐ no	☐ yes (specify) ☒ no	
Life	☐ yes	☐ yes ☐ no		
Strength	☐ yes	☐ yes ☐ no		
Performances	☐ yes	☐ yes ☐ no		
Interchangeability	☐ yes	☐ yes ☐ no		
Reliability	☐ yes	☐ yes ☐ no		
Maintainability	☐ yes	☐ yes ☐ no		
Installability	☒ yes	☐ yes ☒ no		
Testability	☐ yes	☐ yes ☐ no		
Only aspect	☐ yes	☐ yes ☐ no		
Repair Proposal None			Decision to use ☐ Use repaired with specific repair ☐ Use repaired with known repair ☐ Use as is ☐ Use repaired for tests (see Limitations) ☐ Use as is for tests (see Limitations) ☒ Scrap	
Concession Classification		☒ Major ☐ Minor	Submit after repair	☐ yes ☐ no



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 913851

Date: 14-Sep-17

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chantal Lavoie
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		OUR TRUCK	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
11 ea	Part: 647.9710 Lower Body Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils). Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0001-.0002" (1 - 2 mils) per drawing. Job: 21630	Rev: A1	PO: PO37552 Line: 10
7 ea	Part: 647.1611 Wiper Deflector, Aft Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils). Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils). Job: 21623	Rev: A	PO: PO37552 Line: 3
4 ea	Part: D4842-3 Lower Cutter Body, LH Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils). Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0001-.0002" (1 - 2 mils) per drawing. Job: 21624	Rev: B	PO: PO37552 Line: 4
4 ea	Part: D4842-4 Lower Cutter Body, RH Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils). Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0001-.0002" (1 - 2 mils) per drawing. Job: 21625	Rev: B	PO: PO37552 Line: 5
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>14/09/2017</u>			
Made in Canada.			



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37552**

Purchase Order Date 8/25/2017

PO Print Date 8/29/2017

Page Number 2 of 7

Order From :

VC-ATG001

Ship To : DART AEROSPACE LTD

A.T.G. INDUSTRIES INC.
731 INDUSTRIELLE ROAD
ROCKLAND, ON K4K 1T2
CANADA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

613-446-4544

Ship To Contact

Ship To Phone

Ship Via:

VENDOR'S TRUCK

Ship Acct:

Buyer

Diane Baker

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

3	164932	647.1611 Wiper Deflector, Aft	9/13/2017	6.00	\$10.70	\$64.
			Yes			
			9/13/2017			

As per Dwg 647.1600 Rev A

Hard Anodize IAW MIL-A-8625F, Type III, Class 2, Color Black; Prime IAW MIL-PRF-23377, Type I, Class N

Line Total: \$64.

4	164957	D4842-3 Lower Cutter Body, LH	9/13/2017	4.00	\$10.25	\$41.
			Yes			
			9/13/2017			

As per Dwg D4842

Rev B U/R

Hard Anodize IAW MIL-A-8625, Type III, Class 2, Color Black; Prime IAW MIL-P-23377, Type I, Class N, 1-2 mil max

Line Total: \$41.

5	164958	D4842-4 Lower Cutter Body, RH	9/13/2017	4.00	\$10.25	\$41.
			Yes			
			9/13/2017			

As per Dwg D4842

Rev B U/R

Hard Anodize IAW MIL-A-8625, Type III, Class 2, Color Black; Prime IAW MIL-P-23377, Type I, Class N, 1-2 mil max

SEP 15 2017

PO Instructions: PRIMER IS SUPPLIED BY DART

Note:

8/29/2017